

JOB OPENING AT IRB BARCELONA

Postdoctoral position in computational network/systems biology (ref. PD/15/02)

IRB Barcelona is a world-class research centre devoted to understanding fundamental questions about human health and disease. It was founded in October 2005 by the Government of Catalonia (Generalitat de Catalunya) and the University of Barcelona (UB), and is located at the Barcelona Science Park (Parc Científic de Barcelona).

The Institute's missions include conducting multidisciplinary research of excellence at the unique interface between biology, chemistry and medicine, providing high-level training in the biomedical sciences to staff, students and visitors, driving innovation through active technology transfer to the benefit of society, and actively participating in an open dialogue with the public through a series of engagement and education activities.

We are seeking a postdoctoral researcher to conduct computational research on complex human diseases, including Alzheimer's disease and stem cells pathological ageing (e.g. MDS and B-CLL), in the frame of the ERC and FP7 funded projects SysPharmAD and SyStemAge. The main objective of the projects is the identification of novel biomarkers in complex pathologies that correlate with clinical outcomes, to monitor the onset and progression of the pathology from very early stages, and to discover combinations of drug targets and chemical compounds able to modify the biology of the disease.

DUTIES

- The successful candidate will be responsible for construction of disease-associated networks, which will be used as a framework for the integration and analyses of RNA-seq and proteomics data collected from patients and animal models. In addition, he/she will use these data to design a systems pharmacology approach, based on concerted multi-target perturbations, able to monitor and modify the biology of the disease and stop its progression.

EXPERIENCE, KNOWLEDGE, AND SKILLS REQUIRED

- PhD degree or equivalent in bioinformatics or computational biology
- Experience in the analyses of RNA-seq and proteomics data
- Experience in computational network/systems biology modelling
- Remarkable publications record, according to career stage
- Excellent programming/scripting skills
- Positive organizational, problem solving and communication skills
- Fluent spoken and written English

WORKING CONDITIONS AND ENTITLEMENTS

- An initial two-year contract, renewable
- A competitive salary depending on the experience and qualifications of the applicant

HOW TO APPLY

Applications for the above opening should include a CV, a motivation letter and the names of two potential referees and should be sent by e-mail to: irbjobs@irbbarcelona.org Reference: **PD/15/02**

- Deadline for applications: 12/07/2015
- Number of positions available: 1

For more information about the position, please contact Dr Patrick Aloy (patrick.aloy@irbbarcelona.org).

For more information please visit our website at: www.irbbarcelona.org